

### ABSTRACT OF THE DISCLOSURE

Envelope detector and method for determining whether the level of a differential input signal DPIN - DNIN is above a reference voltage  $V_{REF}$ . The differential input signal is converted to a differential current IDP - IDN, the reference voltage is converted to a reference current  $I_{REF}$ , the currents are compared to determine if  $|IDP - IDN|$  is greater than  $I_{REF}$ , and a valid differential signal is indicated when  $|IDP - IDN|$  is greater than  $I_{REF}$ .